ROO'd PCT/PTO 20 JUN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



) 1801 A CHILLEGO II BUDIN BUDIN

(43) International Publication Date 8 July 2004 (08.07.2004)

PCT

(10) International Publication Number WO 2004/057100 A1

- (51) International Patent Classification7: 5/00, D06Q 1/12, G02B 5/128
- D06P 1/00,
- (21) International Application Number:

PCT/EP2003/012948

(22) International Filing Date:

19 November 2003 (19.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02425785.9

19 December 2002 (19.12.2002) EP

- (71) Applicant (for all designated States except US): INDUS-TRIA BERGAMASCA RIFRANGENTI S.R.L. [IT/IT]; Via Pederzola 1/3, I-24040 Scanzorosciate (BG) (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PARISI, Agostino [IT/IT]; c/o Idustria Bergamasca Rifrangenti s.r.l., Via Pederzola 1/3, I-24040 Scanzorosciate (BG) (IT). BARTOLI, Cesare [IT/IT]; c/o Industria bergamasca rifrangenti s.r.l., Via Pederzola 1/3, I-24040 Scanzorosciate (BG) (IT).

- (74) Agent: GARAVELLI, Paolo; A.Bre.Mar. S.r.l., Via Servais, 27, I-10146 Torino (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, $\mathsf{MX}, \mathsf{MZ}, \mathsf{NO}, \mathsf{NZ}, \mathsf{OM}, \mathsf{PH}, \mathsf{PL}, \mathsf{PT}, \mathsf{RO}, \mathsf{RU}, \mathsf{SC}, \mathsf{SD}, \mathsf{SE},$ SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

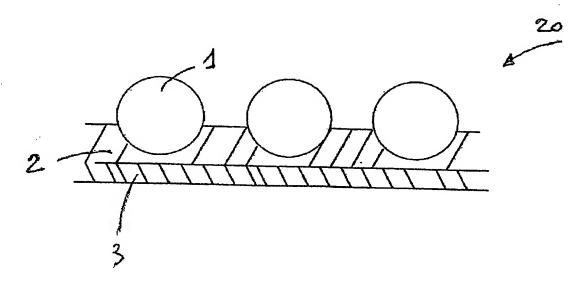
of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

[Continued on next page]

(54) Title: PROCESS FOR MANUFACTURING RETROREFLECTIVE PRINTED MATERIAL



(57) Abstract: The present invention relates to a retroreflective printed product on fabrics a for use in clothing, sportswear, footwear and accessories with a lightreflecting effect, with good design flexibility which ensure trend-setting fashion sense as well as safety sense due to high visibility. More particularly, the invention deals with a continuous, flexible printing process without pollution and effluence, which use a printed mono- or multi-coloured design on paper base or other plastic base to be transferred over the surface of a layer (20) of glass microspheres (1) that are partially embedded in a support sheet (2) and coated with a very thin layer (5) of transparent thermo-adhesive bi-component polyurethane.